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**Bibliography**

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Summary

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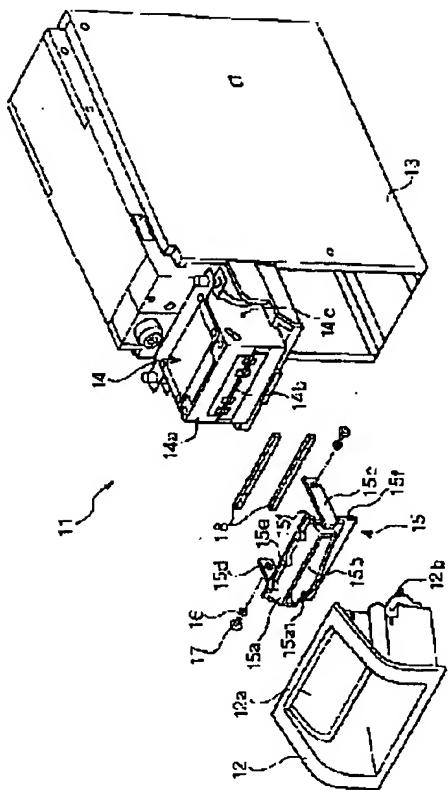
(57) [Abstract]

[Objects of the Invention] The bill handling equipment simply set to a game machine is offered without requiring adjustment.

[Elements of the Invention] Arm 15c is prepared in the both-sides section of the interior material 15 of a bill proposal, and 15d of loose insertion mouths is formed in each edge of these arm 15c. A spacer 16 is loosely inserted in 15d of each loose insertion mouth, and a screw 17 is further inserted in each spacer 16. Moreover, sponge 18 is stuck on 15f of vertical end faces of bill guidance mouth 15b by the side of the building barricade data 14 of the interior material 15 of a bill proposal. By screwing in screw hole 14c by which each screw 17 was formed in the side of the building barricade data 14, the interior material 15 of a bill proposal has a certain amount of play in the direction A perpendicular to front 14a of the building barricade data 14, and the parallel directions B and C, and is attached in them.

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**CLAIMS**

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[Claim(s)]

[Claim 1] It is bill handling equipment of the game machine which is equipped with the buffer member characterized by providing the following, and is characterized by attaching the aforementioned interior material of a bill proposal in the direction perpendicular to a front face and the parallel direction of the aforementioned bill discernment machine with play. The bill discernment machine which discriminates the effectiveness of the injection bill incorporated from the bill intake formed in the

front face Interior material of a bill proposal attached in the front face of the aforementioned bill discernment machine in which the bill guidance mouth which shows an injection bill to the aforementioned bill intake was formed The bill input port member which is made to expose the aforementioned bill guidance mouth to the front face of a game machine, and is allotted to the airframe front face of a wrap game machine in the aforementioned interior material of a bill proposal is set to the bill handling equipment of the game machine constituted by having, and it is elasticity between the front face of the aforementioned bill discernment machine, and the aforementioned interior material of a bill proposal.

[Claim 2] Bill handling equipment of the game machine according to claim 1 characterized by providing the following. The aforementioned interior material of a bill proposal is the 1st engagement section parallel to the front face of the aforementioned bill discernment machine which rises and falls in \*\* on the other hand. It is the 1st positioning section which is equipped with the 2nd engagement section which rises and falls in this direction that intersects perpendicularly with \*\* on the other hand, and the aforementioned bill input port member engages with the engagement section of the above 1st, and carries out order of the idle movement position of the aforementioned interior material of a bill proposal in the one aforementioned direction. The 2nd positioning section which engages with the engagement section of the above 2nd and carries out order of the idle movement position of the aforementioned interior material of a bill proposal in the direction which intersects perpendicularly in the one aforementioned direction

[Claim 3] The aforementioned game machine is bill handling equipment of the game machine according to claim 1 or 2 characterized by being a slot machine.

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**DETAILED DESCRIPTION**

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[Detailed Description of the Invention]  
[0001]

[Industrial Application] this invention relates to the bill handling equipment used for game machines, such as a slot machine and a pachinko machine.

[0002]

[Description of the Prior Art] Conventionally, there are some which are used for the slot machine 1 which shows appearance in the perspective diagram of drawing 5 as this kind of bill handling equipment, for example. The control panel 2 with which the BET button, the coin expenditure button, etc. were prepared in the transverse-plane center section of the slot machine 1 is constituted. the bill input port which bill handling equipment 3 is formed in the right end section of this control panel 2, and constitutes this bill handling equipment 3 in this drawing — the member 4 is shown. The main part of bill handling equipment 3 is contained inside this slot machine 1, and appears by opening the main door 5.

[0003] Drawing 6 is the perspective diagram showing the internal structure of the slot machine 1 which opens this main door 5 and is observed. The main part of bill handling equipment 3 is attached in the building stand 6, is equipped with the bill discernment machine 7, a stacker (bill stowage) 8, and the interior material 9 of a bill proposal, and is constituted. The bill discernment machine 7 judges the truth and the quality of an injection bill. The injection bill judged that is effective with this bill discernment machine 7 is temporarily kept until it is contained by the stacker 8 and collected. It is fixed to the bill intake of this bill discernment machine 7 in one, and the interior material 9 of a bill proposal shows the bill thrown into the bill guidance mouth to the bill discernment machine 7. the state where this bill guidance mouth is projected and formed in the front face of the interior material 9 of a bill proposal, and the main door 5 was closed — bill input port — it exposes to opening 4a of a member 4

[0004]

[Problem(s) to be Solved by the Invention] however, the bill handling equipment 3 which carried out the above-mentioned conventional composition — setting — bill input port — the member 4 is attached in the main door 5 side, and this soma article of bill handling equipment 3 is built in the main part side of a slot machine 1 therefore, bill input port — the time of the main door 5 being closed, as for the relative position of a member 4 and the interior material 9 of a bill proposal — the bill guidance mouth of the interior material 9 of a bill proposal — bill input port — it needs to be set as the position inserted in opening 4a of a member 4 for this reason, the former — the bill handling equipment 3 of composition — setting — the attachment size to the main part of a slot machine of the main door 5, and bill input port — close dimensional accuracy requires of the attachment size to the main door 5 of a member 4, and the attachment size to the main part of a slot machine of the main part of bill handling equipment — having — further — the main door 5 and bill input port — the variation in each part article sizes, such as a member 4 and the interior material 9 of a bill proposal the time of closing the main door 5, after it could not maintain these attachment dimensional accuracy to the slot machine 1 of bill

handling equipment 3 or the size error of each component part varied greatly -- bill input port -- a member 4 -- the interior material 9 of a bill proposal -- colliding -- each part article -- blemish arrival -- it will \*\*\*\*\* and damage for this reason -- such a case -- the main door 5 -- raising -- bill input port -- the work which doubles the insertion position of a member 4 with the interior material 9 of a bill proposal needed to be carried out, and the bill handling equipment 3 of composition was not able to be simply set to the game machine conventionally [ above-mentioned ]

[0005] in order to avoid that such a problem arises on the other hand -- bill input port -- it is possible to form opening 4a of a member 4 greatly However, if opening 4a is formed greatly, a crevice will be produced on the device front face of a slot machine 1, and a possibility which was in the device that it may be shifted arises. Moreover, in order to solve the above-mentioned problem, preparing all the component parts of bill handling equipment 3 in the main door 5 side is also considered. However, if bill handling equipment 3 is installed in the main door 5, the weight of the main door 5 will increase and it will be hard coming to carry out switching operation of the main door 5. The range which can attach bill handling equipment 3 in the main door 5 will also be limited, and it will become impossible moreover, to install bill handling equipment 3 in a desired position. Furthermore, if bill handling equipment 3 is installed in the main door 5, neither a discrimination circuit 7 nor stacker 8 grade will appear only by opening a door. Therefore, it is hard coming to carry out the desorption of these to a slot machine 1, and, as a result, the maintenance nature of bill handling equipment 3 falls.

[0006]

[Means for Solving the Problem] The bill discernment machine which discriminates the effectiveness of the injection bill incorporated from the bill intake which was made in order that this invention might solve such a technical problem, and was formed in the front face, The interior material of a bill proposal attached in the front face of a bill discernment machine in which the bill guidance mouth which shows an injection bill to this bill intake was formed, In the bill handling equipment of the game machine constituted by having the bill input port member which is made to expose this bill guidance mouth to the front face of a game machine, and is allotted to the airframe front face of a wrap and a game machine in the interior material of a bill proposal Between the front face of the above-mentioned bill discernment machine, and the above-mentioned interior material of a bill proposal, it had the buffer member which has elasticity, and it had play in the direction perpendicular to a front face and the parallel direction of a bill discernment machine, and the above-mentioned interior material of a bill proposal was attached.

[0007] Moreover, the 1st engagement section parallel to the front face of a bill discernment machine to the above-mentioned interior material of a bill proposal which rises and falls in \*\* on the other hand, The 1st positioning section which is equipped with the 2nd engagement section which rises and falls in this direction that

intersects perpendicularly with \*\* on the other hand, engages with the above-mentioned bill input port member at the 1st engagement section, and carries out order of the idle movement position of the interior material of a bill proposal in the one above-mentioned direction, It engaged with the 2nd engagement section and had the 2nd positioning section which carries out order of the idle movement position of the interior material of a bill proposal in the direction which intersects perpendicularly in the one above-mentioned direction.

[0008]

[Function] The size error in a direction perpendicular to the front face of a bill discernment machine produced relatively between the bill input port member allotted to the airframe front face of a game machine and the bill discernment machine built in a game machine is absorbed, when the interior material of a bill proposal moves idly in this perpendicular direction and a buffer member expands and contracts to this perpendicular direction. Moreover, it sets in parallel and, as for the size error in a direction parallel to the front face of a bill discernment machine, the interior material of a bill proposal is absorbed by [ this ] moving idly.

[0009] In case the bill input port member by the side of an airframe front face is inserted in the interior material of a bill proposal by the side of the main part of an airframe, moreover, each the 1st and 2nd positioning sections prepared in the bill input port member It engages with the 1st and 2nd engagement sections prepared in the interior material of a bill proposal, order of the idle movement position of the interior material of a bill proposal is carried out, and the relative position between a bill input port member and the interior material of a bill proposal is held in a proper position.

[0010]

[Example] Next, one example which applied the bill handling equipment of the game machine by this invention to the bill handling equipment of a slot machine is explained.

[0011] Drawing 1 is the perspective diagram showing each component part of the bill handling equipment by this example. the bill input port which attaches bill handling equipment in the main part of a slot machine at the main part 11 of bill handling equipment by which built-in fixation is carried out, and a main door, and is fixed — it consists of members 12

[0012] The main part 11 of bill handling equipment is equipped with the bill discernment machine (building barricade data) 14 constituted by the upper part of the stacker receipt case 13, and the interior material 15 of a bill proposal with which front 14a of this building barricade data 14 is equipped. Bill intake 14b is formed in front 14a, and the building barricade data 14 discriminate the effectiveness of the injection bill incorporated from this bill intake 14b. An injection bill once passes this building barricade data 14 regardless of the truth, an effective bill is incorporated as it is, and the bill which is not effective is returned. Bill guidance mouth 15b made to counter by bill intake 14b is formed in anterior part lobe 15a of the interior material

15 of a bill proposal. the time of a main door being closed, as for lobe 15a — bill input port — it inserts in opening 12a of a member 12, and appears in the device exterior, and bill guidance mouth 15b is exposed to the device front face of a slot machine The shift of the cross direction is stopped by this bill guidance mouth 15b, and an injection bill is guided at bill intake 14b of the building barricade data 14.

[0013] Moreover, arm 15c is prepared in the both-sides section of the interior material 15 of a bill proposal, and 15d of loose insertion mouths is formed in each edge of these arm 15c. As shown in the side elevation of drawing 3 (a), the perfect circle is carrying out opening of the 15d of this loose insertion mouth in the perpendicular and the configuration extended for a while horizontally. A spacer 16 is loosely inserted in 15d of each loose insertion mouth, and a screw 17 is further inserted in each spacer 16. Moreover, along with 15f of vertical end faces of oblong opening of this bill guidance mouth 15b, each sponge 18 is stuck on bill guidance mouth 15b by the side of the building barricade data 14 of the interior material 15 of a bill proposal. Each sponge 18 constitutes the buffer member which has elasticity, and demonstrates damper ability. The interior material 15 of a bill proposal is attached in front 14a of the building barricade data 14 by screwing in screw hole 14c by which each screw 17 was formed in the side of the building barricade data 14. Under the present circumstances, each sponge 18 is inserted between the interior material 15 of a bill proposal, and front 14a of the building barricade data 14.

Moreover, the interval between each arm 15c is set up with play somewhat more widely than the width of face of the building barricade data 14, and each arm 15c slides on the peripheral face of a spacer 16 to some extent in this cross direction.

[0014] Drawing 2 is the perspective diagram showing the state where the interior material 15 of a bill proposal was attached to the building barricade data 14. A spacer 16 is loosely inserted in 15d of loose insertion mouths as mentioned above, and the interior material 15 of a bill proposal is attached in the building barricade data 14. For this reason, the interior material 15 of a bill proposal moves idly to some extent to the cross direction A, the vertical direction B of parallel illustration, and longitudinal direction C of illustration perpendicular to front 14a of the building barricade data 14. Although the injection bill 19 is inserted in bill intake 15b from the direction of illustration, the above-mentioned idle movement of the interior material 15 of a bill proposal is set as the play of the grade from which the bill conveyance path formed in from bill guidance mouth 15b before bill intake 14b is always secured.

[0015] Drawing 3 (a) indicates each side of the bill injection regio-oralis material 12 to be the above-mentioned interior material 15 of a bill proposal, and this drawing (b) shows the base of these each part article.

[0016] Flange section 12b and flange section 12c are formed in the interior material 15 side of a bill proposal of the bill injection regio-oralis material 12. These flanges sections 12b and 12c set a fixed interval, separate, and are formed, and the space which lobe 15a of the interior material 15 of a bill proposal inserts is formed between these flanges section 12b and 12c. 12d of three hollows shown in this drawing (b)

forms in this flange section 12b — having — \*\*\*\* — 12d of each hollow — bill input port — the 1st positioning section of a member 12 is constituted moreover, bill input port — flange section 12c in which the edge which a member 12 sets caudad and projects to the interior material 15 side of a bill proposal was formed — bill input port — the 2nd positioning section of a member 12 is constituted

[0017] Moreover, 12d of each hollow of the bill injection regio-oralis material 12 and three boss 15e which fits in are formed in the top root section of lobe 15a of the interior material 15 of a bill proposal (refer to drawing 1 ). When these boss 15e constitutes the 1st engagement section of the interior material 15 of a bill proposal and the building barricade data 14 are equipped with the interior material 15 of a bill proposal, each boss 15e rises and falls in the longitudinal direction C parallel to front 14a of the building barricade data 14. moreover, the lower part 15a1 of lobe 15a of the interior material 15 of a bill proposal — bill input port — it has projected to the member 12 side and the 2nd engagement section of the interior material 15 of a bill proposal is constituted The lower part 15a1 of this lobe 15a rises and falls in the vertical direction B which intersects perpendicularly with the longitudinal direction C parallel to front 14a of the building barricade data 14.

[0018] the bill input port attached in the main door by closing the main door of a slot machine — a member 12 approaches the interior material 15 of a bill proposal built [ of this drawing (a) ] in the main part of a slot machine from \*\*\*\* And as for the bill injection regio-oralis material 12, the flange section 12b contacts the top inclined plane of anterior part lobe 15a of the interior material 15 of a bill proposal first. By closing a main door further, flange section 12b slides on this inclined plane, and 12d of each hollow fits into each boss 15e of the interior material 15 of a bill proposal. this, simultaneously flange section 12c — the lobe lower part 15a1 — caudad — sliding in . consequently, bill input port — it joins in the state where it stuck as a member 12 and the interior material 15 of a bill proposal were shown in the side elevation of drawing 4 (a), and the interior material 15 of a bill proposal exposes bill guidance mouth 15b to the front face of a main door — making — bill input port — it is covered by the member 12

[0019] This drawing (b) is a plan which looked at this junction state from the upper part, and this drawing (c) is a bottom plan view which looked at this junction state from the lower part. As shown in this drawing (b), when 12d of hollows of the bill injection regio-oralis material 12 engages with boss 15e of the interior material 15 of a bill proposal, in the longitudinal direction C parallel to the front face of the building barricade data 14, order of the installation position of the interior material 15 of a bill proposal moving idly is carried out. Moreover, as shown in this drawing (c), when flange section 12c of the bill injection regio-oralis material 12 engages with the lobe lower part 15a1 of the interior material 15 of a bill proposal, in the vertical direction B parallel to the front face of the building barricade data 14, order of the installation position of the interior material 15 of a bill proposal moving idly is carried out. It becomes depressed. namely, bill input port — the time of inserting opening 12a of a

member 12 in lobe 15a of the interior material 15 of a bill proposal — bill input port — it was prepared in the member 12 — 12d and flange section 12c boss 15e and the lobe lower part 15a1 which were prepared in the interior material 15 of a bill proposal — being engaged — the idle movement position of the interior material 15 of a bill proposal — order — carrying out — bill input port — the relative position between a member 12 and the interior material 15 of a bill proposal is held in a proper position

[0020] the bill input port which is attached in the main door front face of a slot machine according to the bill handling equipment by such this example — the size error resulting from the attachment dimensional accuracy and part dimensional accuracy which are produced relatively between a member 12 and the building barricade data 14 built in the main part of a slot machine is absorbed when the interior material 15 of a bill proposal moves idly That is, this size error produced in the direction A perpendicular to front-face of building barricade data 14a is absorbed, when the interior material 15 of a bill proposal moves idly in this perpendicular direction A and sponge 18 expands and contracts to this perpendicular direction A. Moreover, the above-mentioned size error produced in the directions B and C parallel to front-face of building barricade data 14a is absorbed when the interior material 15 of a bill proposal moves idly as mentioned above in these parallel directions B and C.

[0021] In addition, although the case where sponge 18 was used as a buffer member in the above-mentioned example was explained, a buffer member should just be a member which demonstrates the damper ability which is not limited to this and has elasticity, such as a spring and rubber. When such a buffer member is used, the same effect as the above-mentioned example is done so. Moreover, although the case where this invention was applied to a slot machine in the above-mentioned example was explained, it is also possible for this invention not to be limited to this and to apply this invention to other game machines called a pachinko machine.

[0022]

[Effect of the Invention] The size error in a direction perpendicular to the front face of a bill discernment machine which is produced relatively between the bill input port member allotted to the airframe front face of a game machine and the bill discernment machine built in a game machine according to this invention as explained above is absorbed, when the interior material of a bill proposal moves idly in this perpendicular direction and a buffer member expands and contracts to this perpendicular direction. Moreover, it sets in parallel and, as for the size error in a direction parallel to the front face of a bill discernment machine, the interior material of a bill proposal is absorbed by [ this ] moving idly.

[0023] For this reason, it is not necessary to perform installation to the device of each part article with close dimensional accuracy like before, and to suppress the variation in each part article size severely like before. Therefore, bill handling equipment is simply set to a game machine, without requiring adjustment, and does

not carry out blemish arrival beam \*\*\*\*\* of each part article like before according to a size error. Moreover, since it is not necessary to form big opening in a bill input port member, a crevice which was present in the device front face and which is shifted is not produced. Moreover, the weight of a door does not increase, and a door is opened [ since a bill input port member is attached in a device front-face side and the main part of bill handling equipment is contained inside the main part of a device ] and closed easily. And restrictions are not produced like before in the installation position to the game machine of bill handling equipment. Furthermore, by only opening a door, a bill discernment machine, a bill stowage, etc. appear simply, and desorption is easily carried out to a game machine. For this reason, the maintenance nature of bill handling equipment does not fall.

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] It is the perspective diagram showing each part article which constitutes the bill handling equipment of the slot machine by one example of this invention.

[Drawing 2] It is the perspective diagram showing the state where the front face of the building barricade data of the bill handling equipment by this example was equipped with the interior material of a bill proposal.

[Drawing 3] the bill input port which constitutes the bill handling equipment by this example -- it is drawing showing the side and the base of a member and the interior material of a bill proposal

[Drawing 4] It is drawing showing the side, flat surface, and base in the state where a bill input port member and the interior material of a bill proposal joined in this example.

[Drawing 5] It is the perspective diagram showing the appearance of the conventional slot machine.

[Drawing 6] It is the perspective diagram showing the internal structure of the

conventional slot machine.

[Description of Notations]

11 -- Main part of bill handling equipment

12 -- Bill injection regio-oralis material

12a -- Opening of the bill injection regio-oralis material 12

12c -- Flange section (2nd positioning section)

12d -- It becomes depressed (1st positioning section).

14 -- Building barricade data (bill discernment machine)

14a -- Front face of the building barricade data 14

14b -- Bill intake

15 -- Interior material of a bill proposal

15a -- Lobe

15a1 -- Lobe lower part (2nd engagement section)

15b -- Bill guidance mouth

15e -- Boss (1st engagement section)

18 -- Sponge (buffer member)

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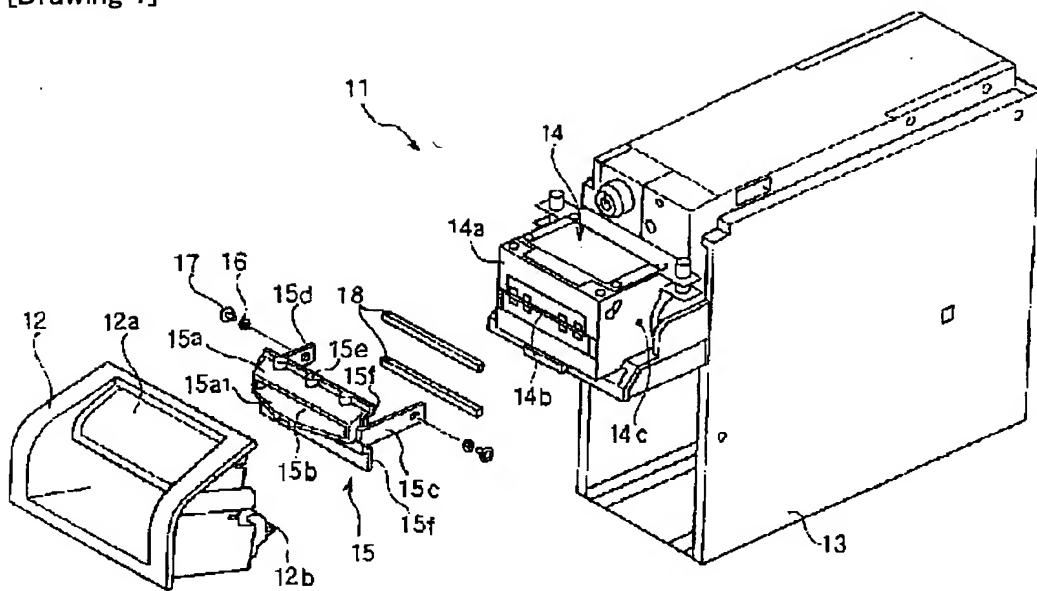
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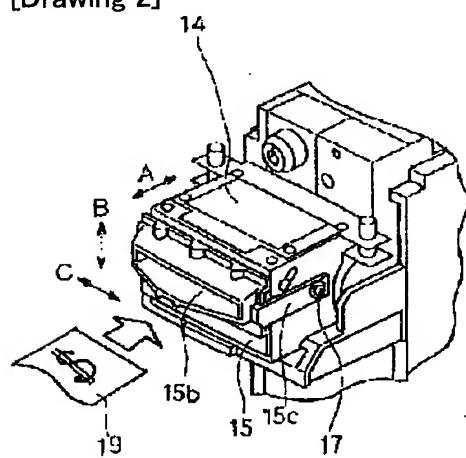
DRAWINGS

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[Drawing 1]

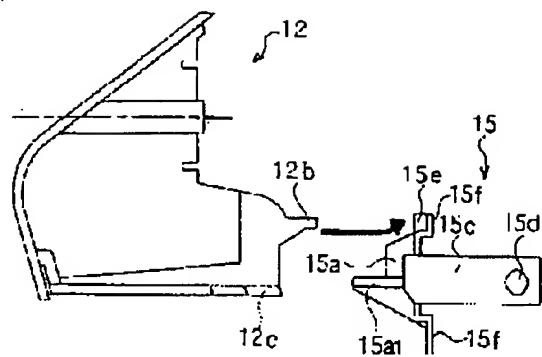


[Drawing 2]

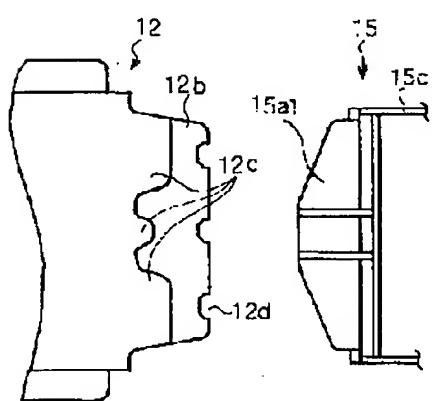


[Drawing 3]

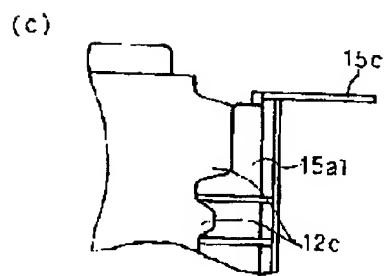
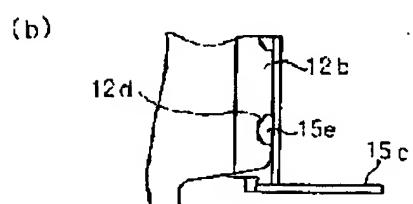
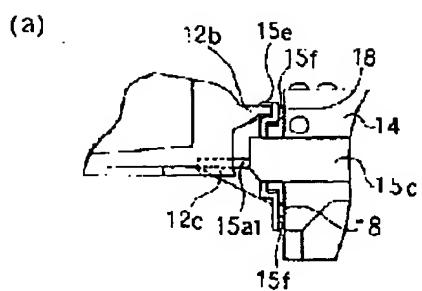
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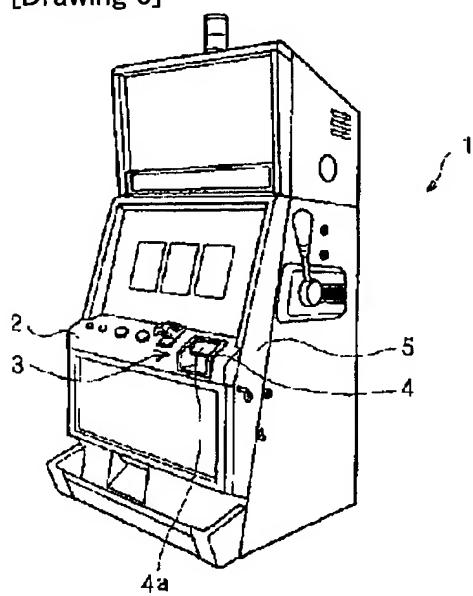
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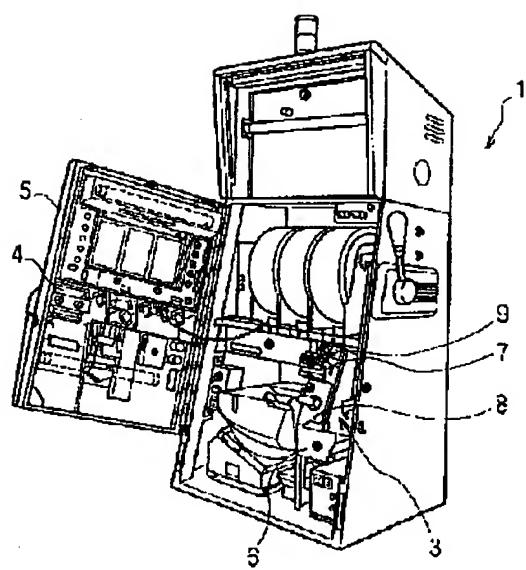
[Drawing 4]



[Drawing 5]



[Drawing 6]



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